

## Product Datasheet

### Anti-hCG beta 5012 SPRN-5 100368

<b>Product Name</b>	Anti-hCG beta 5012 SPRN-5
<b>Catalog Number</b>	100368
<b>Description</b>	Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components.
<b>Tested Applications</b>	CLIA, FIA
<b>Brand</b>	Medix Biochemica
<b>Form/Appearance</b>	Liquid, may turn slightly opaque during storage
<b>Concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Storage</b>	+2-8°C
<b>Note</b>	Binding of antibody 5012 to intact hCG is sterically hindered by the $\alpha$ subunit. Therefore, assays developed with 5012 do not measure intact hCG.
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal
<b>Epitope</b>	Beta-7 as described in Berger et al. (2013). The antibody recognizes free hCG $\beta$ subunit.
<b>Purity</b>	$\geq 95$ %
<b>Affinity constant</b>	$K_A = 1.2 \times 10^9$ 1/M; $K_D = 8.1 \times 10^{-10}$ M (= 0.81 nM)
<b>Associated Products</b>	Native $\beta$ -hCG antigen, Lee Biosolutions 325-11
<b>Buffer</b>	37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>IEF Profile</b>	6.3-7.3
<b>Cross Reactivity</b>	Does not recognize intact hCG, hCG $\alpha$ , LH, FSH, or TSH
<b>Specificity</b>	Antibody recognizes human chorionic gonadotropin free beta subunit
<b>Shelf Life</b>	36 months
<b>References</b>	Berger, P., Paus, E., Hemken, P.M., Sturgeon, C., Stewart, W.W., Skinner, J.P., Harwick, L.C., Saldana, S.C., Ramsay, C.S., Rupprecht, K.R., Olsen, K.H., Bidart, J.M. and Stenman, U.H. (2013) Candidate epitopes for measurement of hCG and related molecules: the second ISOBM TD-7 workshop. Tumor Biol., 34: 4033-4057